

IN THE CLAIMS.

1. (previously presented) A cable connector for interconnecting coaxial cables having center and outer conductors, comprising:

first and second insulated housings matable with one another and configured to receive coaxial cables, said first and second insulated housings including first and second cavities, respectively;

first and second center contacts configured to securely attach to center conductors of coaxial cables, said first and second center contacts being inserted into said first and second cavities, respectively, at least one of said first and second center contacts constituting a blade contact having a flat planar body section; and

first and second outer ground contacts configured to securely attach to outer conductors of coaxial cables, said first and second outer ground contacts each having at least one planar wall secured to a respective first and second insulated housing, said planar walls of said first and second outer ground contacts being positioned on opposite sides and parallel to said planar body section.

2. (original) The cable connector of claim 1, wherein said first and second insulated housings include flat peripheral walls formed in a rectangular shape, said planar walls of said first and second outer ground contacts abutting against a respective one of said flat peripheral walls.

3. (original) The cable connector of claim 1, wherein each of said first and second outer ground contacts includes walls formed together in a rectangular U-shape, said walls being inserted along opposite sides of said first and second insulated housings.

4. (original) The cable connector of claim 1, further comprising at least one coaxial cable displacement contact connected to at least one of said first and second outer ground

contacts, said coaxial cable displacement contact having displacement beams configured to pierce and electrically engage an outer conductor of a coaxial cable.

5. (previously presented) The cable connector of claim 1, wherein said blade contact defining a contact plane located between, and arranged parallel to, said planar walls.

6. (original) The cable connector of claim 1, wherein said first and second center contacts both constitute blade contacts having said planar body sections, said blade contacts mating with one another and arranged in perpendicular contact planes.

7. (original) The cable connector of claim 1, wherein said first and second outer ground contacts and at least one of said first and second center contacts are mounted to said first and second insulated housings layered in parallel planes in a strip line geometry.

8. (original) The cable connector of claim 1, wherein each of said first and second outer ground contacts include a first planar wall arranged parallel to said first center contact and a second planar wall arranged parallel to said second center contact.

9. (original) The cable connector of claim 1, wherein said first and second insulated housings form a dielectric layer spacing said first and second center contacts from said first and second outer ground contacts by a predetermined distance.

10. (original) The cable connector of claim 1, wherein said first and second center and outer ground contacts generate an electric field concentrated proximate, and along an axis extending perpendicular to, said planar walls.

11. (currently amended) A coaxial cable connector comprising:

a connector housing configured to receive a coaxial cable having inner and outer conductors;

a pair of ground contacts, each contact configured to be connectable to an outer conductor of the coaxial cable; and

a center blade contact having a flat planar body, said center blade contact configured to be connectable to an inner conductor of a coaxial cable, said connector housing maintaining said center blade contact and said pair of ground contacts in parallel planes, said center blade contact positioned between said pair of ground contacts in a strip line geometry.

12. (currently amended) The coaxial cable connector of claim 11, wherein said connector housing includes a slot for receiving said center blade contact, said housing including flat exterior surfaces for receiving said ground contacts, said slot and flat exterior surfaces being formed parallel to one another, said connector housing forming a dielectric layer separating said center blade and ground contacts by a predetermined distance.

13. (currently amended) The coaxial cable connector of claim 11, wherein said pair of ground contacts include U-shaped rectangular shells joining one another to surround said center blade contact.

14. (currently amended) The coaxial cable connector of claim 11, wherein said pair of ground contacts constitute opposed planar walls located on opposite sides of said center blade contact.

15. (canceled)

16. (original) The coaxial cable connector of claim 11, wherein said pair of ground contacts comprise opposed planar walls arranged perpendicular to said parallel planes.

17. (currently amended) The coaxial cable connector of claim 11, wherein said pair of ground contacts include first and second ground shell walls positioned in said parallel planes on opposite sides of said center blade contact, and third and fourth ground shell walls positioned along side edges of said center blade contact.

18. (currently amended) The coaxial cable connector of claim 11, wherein said center blade contact and pair of ground contacts generate an electric field having a magnitude focused in regions extending in a direction transverse to said parallel planes.

19. (currently amended) The coaxial cable connector of claim 11, wherein said pair of ground contacts and center blade contact form a flux density distribution having primary concentration areas proximate opposite sides of said center blade contact and secondary concentration areas proximate opposite lateral edges of said center blade contact.

20. (previously presented) A coaxial cable connector, comprising:
a housing having opposite ends configured to be connectable to a pair of coaxial cables;
a center blade contact having a flat planar body, said center contact being configured to be connected to conductors in said pair of coaxial cables; and
ground contacts configured to be connected to ground conductors in said pair of coaxial cables, said ground and center blade contacts being retained by said housing and being arranged parallel to one another.

21. (previously presented) The coaxial cable connector of claim 20, wherein ground contacts have planar bodies located on opposite sides of said planar body of said center contact, said planar bodies of said ground contacts being arranged parallel to said planar body of said center blade contact.

22. (previously presented) The coaxial cable connector of claim 20, wherein said pair of coaxial cables form circumferentially symmetric electric field distributions proximate opposite ends of said housing and said center blade and ground contacts form an asymmetric electric field distribution about said housing, said asymmetric electric field distribution having flux density focused in major areas extending outward from opposite sides of said planar body.

23. (previously presented) The coaxial cable connector of claim 20, wherein said ground and center blade contacts define a strip-line geometry forming an electric field distribution focused in primary and secondary areas, said primary areas having a greater flux density concentration than in said secondary areas.

24. (previously presented) The coaxial cable connector of claim 20, wherein said ground and center blade contacts form an asymmetric electric field distribution with regions of low flux density located proximate edges of said center blade contact.

25. (previously presented) The coaxial cable connector of claim 20, wherein said ground contacts include body sections arranged parallel to said planar body of said center blade contact and include side walls arranged perpendicular to said planar body of said center blade contact.

26. (previously presented) A coaxial cable connector, comprising:
a housing having opposite ends configured to be connectable to a pair of coaxial cables;
a center contact having a planar body, said center contact being configured to be connected to conductors in said pair of coaxial cables; and

ground contacts configured to be connected to ground conductors in said pair of coaxial cables, said ground and center contacts being retained by said housing and being arranged parallel to one another, wherein said housing includes a rectangular body portion with a recessed slot therein receiving said center contact, said body portion having flat opposed side walls engaging said ground contacts, said body portion forming a dielectric layer between said center and ground contacts.

27. (previously presented) A coaxial cable connector, comprising:

a housing having opposite ends configured to be connectable to a pair of coaxial cables;

a center contact having opposite ends configured to be connectable to a pair of coaxial cables;

a center contact having a planar body, said center contact being configured to be connected to conductors in said pair of coaxial cables; and

ground contacts configured to be connected to ground conductors in said pair of coaxial cables, said ground and center contacts being retained by said housing and being arranged parallel to one another, wherein said housing is formed of a dielectric material shaped with flat exterior walls engaging said ground contacts and with an interior cavity receiving said center contact, said exterior walls and interior cavity spacing said center and ground contacts apart by a predetermined distance.

28. (original) The coaxial cable connector of claim 20, wherein said housing includes flat outer walls and an interior slot parallel to said outer walls, said outer walls and slot cooperating to hold said ground and center contacts, respectively, in parallel planes.

29. (previously presented) A coaxial cable connector, comprising:

a housing having opposite ends configured to be connectable to a pair of coaxial cables;

a center contact having a planar body, said center contact being configured to be connected to conductors in said pair of coaxial cables; and

ground contacts configured to be connected to ground conductors in said pair of coaxial cables, said ground and center contacts being retained by said housing and being arranged parallel to one another, wherein said center contact including first and second blade contacts mated with one another in a cross arrangement to form a dual strip-line geometry.

30-43. (canceled)